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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/822,548	03/30/2001	Matthew D. Wood	42390P10451	7654
Michael A. DeSanctis BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP Seventh Floor 12400 Wilshire Boulevard Los Angeles, CA 90025-1026			EXAMINER	
			PYZOCHA, MICHAEL J	
			ART UNIT	PAPER NUMBER
			2137	<del>-</del>
			DATE MAILED: 01/12/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/822,548	WOOD ET AL.				
Office Action Summary	Examiner	Art Unit				
	Michael Pyzocha	2137				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep- If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin bly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 20 L	December 2005.					
2a)⊠ This action is <b>FINAL</b> . 2b)□ Thi						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) <u>1-3,5-9,17-20,25-27,29 and 30</u> is/are 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) <u>1-3,5-9,17-20,25-27,29 and 30</u> is/are 7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or	e rejected.					
Application Papers						
9) ☐ The specification is objected to by the Examine	er.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	•	• • •				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicationity documents have been received in (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date</li> </ol>	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTO-152)				

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#### DETAILED ACTION

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1. Claims 1-3, 5-9, 17-20, 25-27, and 29-30 are pending.

2. Amendment filed on 12/20/2005 has been received and considered.

# Claim Objections

3. Claims 1, 17 and 25 are objected to because of the following informalities: the limitation, "wherein the secure entropy collection protocol to perform" lacks a verb. It will be assumed, for the purpose of examination, to read, "wherein the secure entropy collection protocol is used to perform".

Appropriate correction is required.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-3, 5-9, 17-20, 25-27, and 29-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matyas, Jr. et al

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(US 6687375), in view of Chen et al (US 6182220), further in view of Hardy et al (US 6073242), and further in view of Menezes et al (Handbook of Applied Cryptography).

As per claims 1, 17 and 25, Matyas Jr. et al discloses initializing a pseudo-random number generator (PRNG); obtaining local seeding information from a host; obtaining additional seeding information; and stirring the PRNG with the local seeding information and the additional seeding information (see column 9 lines 19-34 and 45-67).

Matyas Jr. et al fails to disclose securely obtaining additional seeding information from one or more remote entropy servers.

However, Chen et al teaches obtaining seeding information from one or more remote entropy servers (see column 1 line 66 through column 2 line 9).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to obtain the additional seeding information of Matyas Jr. et al from the server of Chen et al.

Motivation to do so would have been too update passwords on the server (see Chen et al column 4 lines 15-39).

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The modified Matyas Jr. et al and Chen et al system fails to disclose the communication between host and server being secure.

However, Hardy et al teaches secure communications (see column 3 lines 54-67).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use Hardy et al's method of secure communications in the modified system of Matyas Jr. et al and Chen et al system.

Motivation to do so would have been to provide confidentiality, authentication and integrity to the communications (see column 3 lines 54-67).

The modified Matyas Jr. et al, Chen et al, and Hardy et al system fails to disclose the specific method of securely obtaining the keys and data.

However, Menezes et al teaches the key exchanging (see section 12.5.1), the use of temporary keys (see page 494) and the use of a public key encryption scheme (see section 1.8.1).

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use the methods of Menezes et al to securely obtain the seeding information of the modified Matyas Jr. et al, Chen et al, and Hardy et al system.

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Motivation to do so would have been to transport the key (see section 12.5.1), to limit the available ciphertext (see page 494) and that only the private key must be kept secret (see section 1.8.4).

As per claims 2-3 and 26-27, the modified Matyas Jr. et al, Chen et al, Hardy et al, and Menezes et al system discloses the initializing the PRNG comprises initializing the internal state of the PRNG with a random value that is a seed (see Matyas Jr. et al column 9 lines 19-34).

As per claims 5 and 29, the modified Matyas Jr. et al, Chen et al, Hardy et al, and Menezes et al system discloses the one or more remote entropy servers maintain random state pool to supply the host with the random value (see Matyas Jr. et al column 9 lines 45-67).

As per claim 6-8, the modified Matyas Jr. et al, Chen et al, Hardy et al, and Menezes et al system discloses the securely obtaining seeding information from the one or more remote entropy servers may include using a privacy protocol, wherein the privacy protocol comprises secure sockets layer (SSL) protocol and transport layer security (TLS) protocol (see Hardy et al column 3 lines 54-67).

As per claims 9 and 30, the modified Matyas Jr. et al, Chen et al, Hardy et al, and Menezes et al system discloses the

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stirring the PRNG comprises producing a cryptographically random stream of bits (see Matyas Jr. et al column 9 lines 45-67).

As per claim 18, the modified Matyas Jr. et al, Chen et al, Hardy et al, and Menezes et al system discloses the local system generates local seeding information (see Matyas Jr. et al column 9 lines 45-67).

As per claim 19, the modified Matyas Jr. et al, Chen et al, Hardy et al, and Menezes et al system discloses the one or more remote systems generate remote seeding information (see Chen et al column 1 line 66 through column 2 line 9).

As per claim 20, the modified Matyas Jr. et al, Chen et al, Hardy et al, and Menezes et al system the entropy servers are hardware or software (see Chen et al column 4 lines 40-54).

### Response to Arguments

6. Applicant's arguments with respect to claims 1-3, 5-9, 17-20, 25-27, and 29-30 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is

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reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Roberts (US 6931128) teaches using remote seeds when generating keys.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Pyzocha whose telephone number is (571) 272-3875. The examiner can normally be reached on 7:00am - 4:30pm first Fridays of the bi-week off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be

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reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MJP

Mathew S. Lowthern MATTHEW SMITHERS PRIMARY EXAMINER Art Unit 2137

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